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L12: Entry 1 of 4

File: USPT

Mar 26, 2002

DOCUMENT-IDENTIFIER: US 6363400 B1

TITLE: Name space extension for an operating system

Brief Summary Text (20):

One solution to these problems is to create and install a custom file system which replaces or otherwise augments the pre-existing or "native" file system. Such a custom file system could be designed to allow freer reconfiguration, and to allow storage and display of more file information. However, implementing the hundreds of function routines included in a file system is an exceptionally complex task. If successful, the resulting custom file system would be an undesirably large and complex program which would be difficult to successfully debug, and cost an excessive amount to create.

Brief Summary Text (27):

In accordance with another aspect of the invention there is a method of representing data as files in a data processing system. The data processing system comprises an operating system having a default view component for providing default file attributes of files in a file system in a default view. The default view component of the operating system is accessible to applications programs. The data processing system further comprises one or more mass storage devices. Each mass storage device comprises one or more logical disks. Each logical disk stores a file system, the file systems comprising files, the file systems including names, attributes and locations of the respective files stored in the respective file systems. The data processing system further comprises one or more file system drivers. Each file system driver comprises function routines and file management structures for providing file access services to the operating system with respect to at least one of the file systems. The file system drivers each provide a single representation of the respective file systems. The data processing system also comprises a view application for providing configurable views of the files in the file systems. The configurable views include custom file attributes which are not available in the default views provided by the default view component of the operating system. The method comprises requesting by one of the applications programs a first view of a first defined part of one of the file systems. The method further comprises the default view component of the operating system providing a default view of the first defined part. The method further comprises requesting by one of the applications programs a second view of a second defined part of one of the file systems. The method further comprises substituting the view application for the default view component of the operating system with respect to the second defined part. The method further comprises the view application providing a non-default view of the second defined part.

CLAIMS:

1. A method of representing data as files in a data processing system, the data processing system comprising: an operating system having a default view component for providing default file attributes of files in a file system in a default view, the default view component of the operating system being accessible to applications programs; one or more mass storage devices, each mass storage device comprising one or more logical disks, each logical disk storing a file system, the file systems comprising files, the file systems including names, attributes and locations of the respective files stored in the respective file systems; one or more file system drivers, each file system driver comprising function routines and file management structures for providing file access services to the operating system with respect to at least one of the file systems, wherein the file system drivers each provide a single representation of the respective file systems; and a view application for providing configurable views of the files in the file systems, the configurable views including custom file attributes which are not available in the default views provided by the default view component of the operating system;

the method comprising: (a) requesting by one of the applications programs a first view of a first defined part of one of the file systems; (b) the default view component of the operating system providing a default view of the first defined part; (c) requesting by one of the applications programs a second view of a second defined part of one of the file systems; (d) substituting the view application for the default view component of the operating system with respect to the second defined part; (e) the view application providing a non-default view of the second defined part.

2. The method of representing data as files in a data processing system of claim 1 wherein the step of the view application providing the configurable view comprises the view application obtaining from a data repository system the default file attributes and the custom file attributes.

3. The method of representing data as files in a data processing system of claim 2, wherein the data repository system comprises a version control system and the custom file attributes include, for each of the files in the second portion: a status of the file, if a user has gained exclusive control of the file, a name of the user, and a revision number of the file.

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L1: Entry 1 of 2

File: USPT

May 7, 2002

DOCUMENT-IDENTIFIER: US 6385625 B1

TITLE: Highly available cluster coherent filesystem

Detailed Description Text (9):

In the illustrative embodiment, cluster filesystem 118 includes a cluster filesystem layer 120, a local filesystem 122 and a meta-data stub 124. Generally speaking, a local filesystem is a filesystem designed for computer systems in which only one node accesses a storage device. Accordingly, local filesystems typically do not provide for cluster-wide data coherency. In one embodiment, local filesystem 122 is an off-the-shelf filesystem. Generally speaking, an off-the-shelf filesystem is a non-custom filesystem which enjoys wide distribution and is well supported. Examples of off-the-shelf filesystems are UFS, VxFS, DOS and VMS.

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L12: Entry 2 of 4

File: USPT

Mar 12, 2002

DOCUMENT-IDENTIFIER: US 6356915 B1

TITLE: Installable file system having virtual file system drive, virtual device driver, and virtual disks

Brief Summary Text (20):

One solution to these problems is to create and install a custom file system which replaces or otherwise augments the pre-existing or "native" file system. Such a custom file system could be designed to allow freer reconfiguration, and to allow storage and display of more file information. However, implementing the hundreds of function routines included in a file system is an exceptionally complex task. If successful, the resulting custom file system would be an undesirably large and complex program which would be difficult to successfully debug, and cost an excessive amount to create.

Brief Summary Text (27):

In accordance with another aspect of the invention there is a method of representing data as files in a data processing system. The data processing system comprises an operating system having a default view component for providing default file attributes of files in a file system in a default view. The default view component of the operating system is accessible to applications programs. The data processing system further comprises one or more mass storage devices. Each mass storage device comprises one or more logical disks. Each logical disk stores a file system, the file systems comprising files, the file systems including names, attributes and locations of the respective files stored in the respective file systems. The data processing system further comprises one or more file system drivers. Each file system driver comprises function routines and file management structures for providing file access services to the operating system with respect to at least one of the file systems. The file system drivers each provide a single representation of the respective file systems. The data processing system also comprises a view application for providing configurable views of the files in the file systems. The configurable views include custom file attributes which are not available in the default views provided by the default view component of the operating system. The method comprises requesting by one of the applications programs a first view of a first defined part of one of the file systems. The method further comprises the default view component of the operating system providing a default view of the first defined part. The method further comprises requesting by one of the applications programs a second view of a second defined part of one of the file systems. The method further comprises substituting the view application for the default view component of the operating system with respect to the second defined part. The method further comprises the view application providing a non-default view of the second defined part.